

# Erosion Control: A Systematic Approach

## EPA Performance Track Tele-Seminar

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September 28, 2004



# Causes and Contributing Factors

- Water Flow
  - ◆ Stormwater
  - ◆ Line Breaks
- Slopes
- Site development
- Snow Removal



# Why Control Erosion?

- Damage
  - ◆ Landscape
  - ◆ Roads and Parking Lots
  - ◆ Structures
- Aesthetics
- Watershed Impacts
  - ◆ Sediment
  - ◆ Nutrients
    - ◆ Phosphorus
    - ◆ Nitrogen
  - ◆ Other Pollutants
- Regulatory Compliance





# Reasons for Failures

- Not Considering Water Flow
- Improper Maintenance
- “Band-Aid” Solutions
- Failure to Identify Root Cause



# Systematic Approach

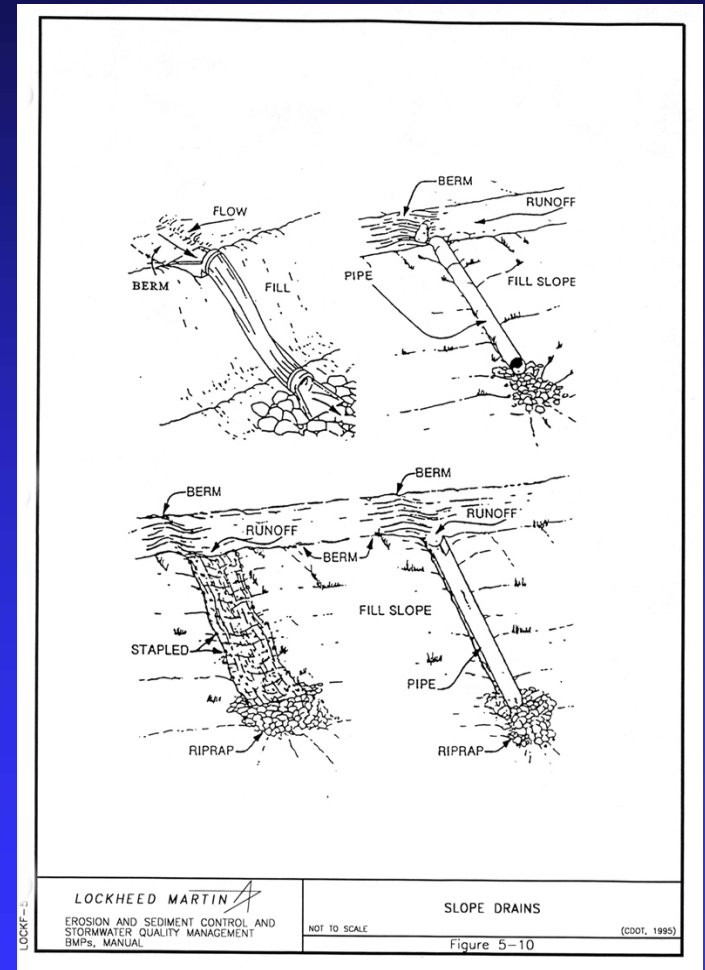


- Understanding
- Prevention
- Maintenance
- Engineered Solutions



# Erosion Control Manual

- Causes
- Best Management Practices
  - ◆ Temporary
  - ◆ Permanent





# Results of Systematic Approach

Original Control



Engineered Solution



# Results of Systematic Approach

Original Control



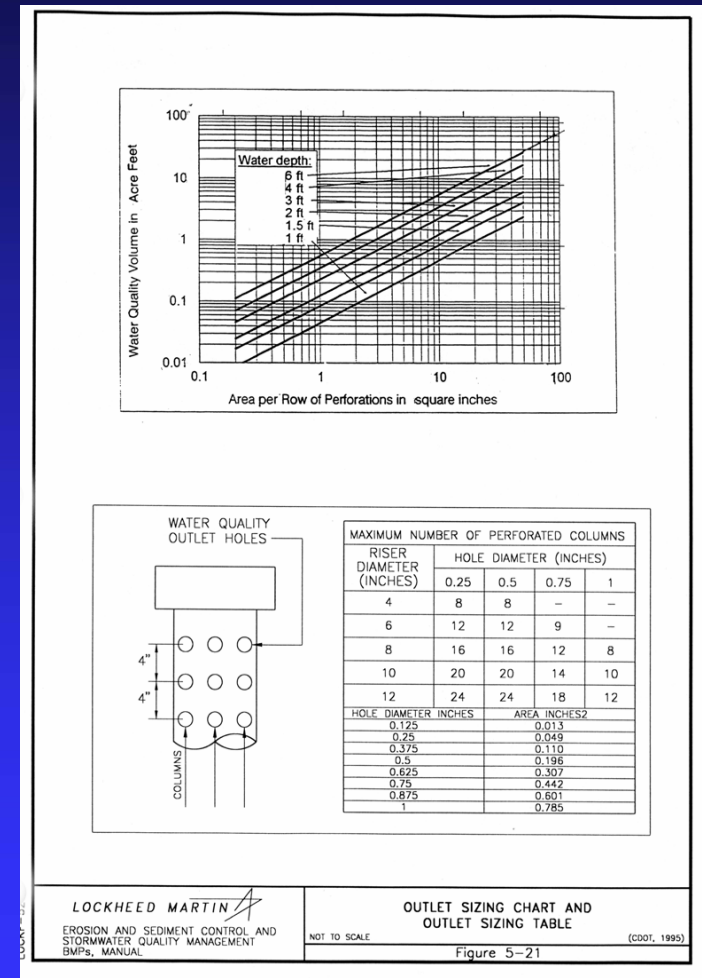
Engineered Solution





# Erosion Identification and Repair

- Formal & Informal Inspections
- Evaluate Impacts
- Budget for Erosion Control
- Designed Projects



# Benefits

- Watershed
  - ◆ Reduced Sediment
  - ◆ Reduced Pollutants
  - ◆ Trading Credits
- Cost Savings
- Aesthetics
- Regulatory Compliance

